AntiVirus

AntiVirus provides protection against a variety of threats, including both known and unknown malicious codes (Malware), plus Advanced Targeted Attacks (ATA), also known as Advanced Persistent Threats (APT), using a suite of integrated security technologies.

Advanced Protection against Malware and APTs

Malware and Advanced Persistent Threats can cause significant damages to today's organizations. These malicious codes are commonly designed to steal valuable data, gain unauthorized access, or cause products to degrade. FortiOS's AntiVirus is an industry-proven anti-malware security solution with robust features and deployment options.

FortiOS offers the unique ability to implement both flow- and proxy-based AV concurrently, depending on traffic type, users, and locations. Flow-based AV offers higher throughput performance while proxy-based solutions are useful in mitigating stealthy malicious codes. The AV detection capabilities are further enhanced with complementary security features and external sandbox integration.

By utilizing the unique Content Pattern Recognition Language (CPRL) built into the FortiASIC Content processor, FortiOS is able to deliver high performance and low latency Anti-malware capabilities. This protection is backed by a team of worldwide researchers that provide real-time security updates. FortiOS also offers tools such as real-time query widgets, detailed logging, and in-depth reporting features.

Key Features & Benefits

Robust Feature set	Enjoys the flexibility to deploy appropriate protection according to security needs and infrastructure designs.
High performance utilizing FortiASIC and patented CPRL AV signatures.	Low latency and high capacity ensures that business applications are not affected while security is enforced.
Backed by FortiGuard Labs that deliver real-time protection.	Critical digital assets are covered by continuous protection against latest threats.

Rich feature set for protecting your applications, data and users.

- Certification from multiple industries for best-in-class security and capacity with proven coverage and high performance.
- Multi-layered protection with extended AV components and external file analysis integration.
- Comprehensive remediation actions such as file quarantine and knowledge tools.

Industry's Validated Protection

FortiOS Anti-malware components and FortiGuard AV signatures periodically undergo numerous authoritative certifications. These independent certifications demonstrate that the solution offered is of the highest standard in performance and accuracy, ensuring organizations are truly protected.

Fortinet has been consistently ranked among the top vendors for Virus Bulletin's RAP (Reactive And Proactive) bimonthly tests. This test measures a products' detection rates over the freshest samples available, as well as samples not seen until after product databases are frozen, thus reflecting both the vendors' ability to handle the huge quantity of newly emerging malware and their accuracy in detecting previously unknown malware.

Real Time Protection

The FortiGuard AntiVirus Service provides fully automated updates to ensure protection against the latest content-level threats via the experienced FortiGuard global network that is backed by over 200 researchers.

FortiGuard AV service quick facts

- 14,000 malware programs neutralized per minute
- 550,000 new and updated AV definitions per week

Organizations can also engage the FortiGuard Premier Signature Service, which provides enhanced virus detection and threat analysis support. This service offers submissions for custom AntiVirus signatures on a daily basis in order to obtain prioritized support with guaranteed response times.

Unique Proxy and Flow Based AV

FortiOS 5 offers organizations the flexibility to select the most appropriate inspection method for different network sessions. This can be implemented by defining policies that match specific source objects (IP, IP ranges, users, and devices), destination objects, applications, and schedules with different AV profiles.

Flow-based AV relies on IPS technology where packets are inspected in real-time and matched against the AV signature database. It offers lower latency and higher throughput than Proxy-based AV. Flow-based AV is recommended for inspecting traffic that requires spontaneous user experience or when serving as an additional AV protection layer.

FortiOS's Proxy-based AV offers the most secure AV protection as it's able to inspect more protocols and provides replacement messages on wider range of applications..

AV Acceleration with Content Processor

The FortiASICS Content Processor (CP) accelerates content processing traditionally performed completely by the CPU. The CP reduces the resources required by the CPU when matching an incoming file against the signature database, thus improving system performance and stability.

Proactive Protection using Patented CPRL

Compact Pattern Recognition Language (CPRL) is a patented and powerful proprietary programming language that allows for further inspection of common patterns to not only protect against threats and their variants but also to predict tomorrow's zero-day malware. It allows FortiGuard analysts to describe entire families of malware with a single program, instead of the traditional signature-based "one signature, one variant" model used by other vendors. With fewer signatures to match, throughput performance and latency naturally improve.

Intelligent Behavioral Evaluation

Signature-based security alone is no longer sufficient; it is now critical to understand how devices on your network are behaving. Threat Weight scoring provides a cumulative security ranking of each client device on your network based on a range of behaviors. It provides specific, actionable information that helps identify compromised systems and potential zero-day attacks in real-time.

This unique system attaches predefined scores to various malicious network activities discovered by IPS, application control, URL filtering, etc., to determine the top suspicious users. Administrator can then further inspect these users to undercover unknown threats or APTs via FortiView..

External File Analysis Integration

To detect unknown threats, zero-day, and targeted attacks, the FortiGate can engage external resources to perform additional file analysis. Files can be submitted to an on-premise appliance (FortiSandbox) or cloud-based service (FortiCloud Sandbox) after both proxy-based and flow-based AV processing.

File Filtering

File filtering using data leak prevention (DLP) on the FortiGate offers an effective ways to stop unwanted file transmission instantly. Administrators may implement granular file controls by defining protection profiles using filenames or nearly 50 different file types over mail, web, and file download protocols.

File Quarantine

FortiOS offers sophisticated file quarantine capabilities that allow organizations to archive suspicious or blocked files for further examination or to release false positives.

Anti-bot

Organizations may prevent, uncover, and block botnet activities using FortiOS Anti-Bot traffic pattern detection and IP Reputation services supplied in real-time by FortiGuard threat experts.

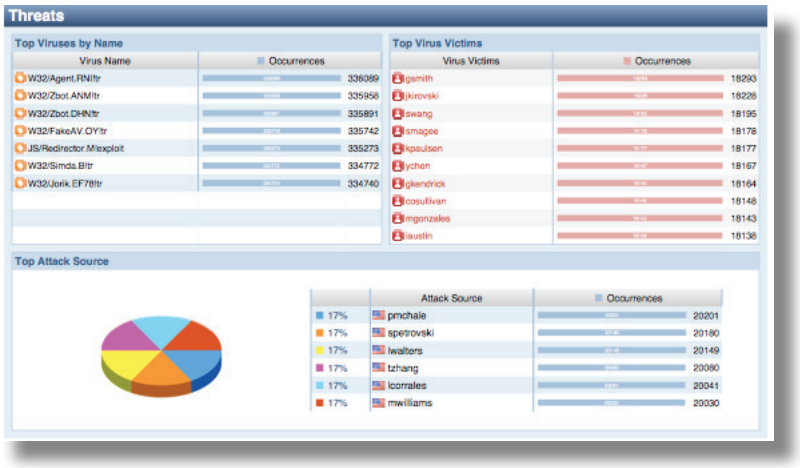
User Notification

User notifications are helpful in reducing administration and support burdens, as well as providing user education. FortiOS is able to automatically replace blocked attachments and downloads with detailed information sent to E-mail, FTP, or web users.

Monitoring, Log & Reporting

FortiOS empowers organizations to implement security best practices that require continuous examination of their threat status and adaptation to new requirements. The FortiView online query widgets provide useful analysis data with detailed and contextual session information, which can be filtered, ranked, and –further inspected. System events can also be archived via logs, which in turn can generate useful trending and overview reports.

FortiOS also offers robust in-built E-mail and SMS alert systems, as well as integration with external threat management systems using SNMP and standard-based syslogs..



FortiGate® - High performance Network Security Platform

- **ASIC-Powered Performance**
  FortiGate purpose-built hardware delivers unmatched price/performance for the most demanding networking environments. FortiASIC processors ensure that your network security solution does not become a network bottleneck.
- **High speed and Flexible Connectivity**
  The FortiGate product family offer a variety of interfaces for today's network, ranging from integrated WAN interfaces, 3G/4G USB wireless broadband support to high speed 40G interfaces for data centers.
- **Broad Product Offerings**
  The FortiGate product family scales from desktop units for remote branch offices, mid-range for small and medium enterprises to high-end platforms for service providers and data centers

ADDITIONAL REFERENCES

Resource	URL
The FortiOS Handbook - The Complete Guide	http://docs.fortinet.com/fgt.html
Fortinet Knowledge Base	http://kb.fortinet.com/
Product Datasheets & Matrix	http://www.fortinet.com/resource_center/datasheets.html
Fortinet Solution Page	http://www.fortinet.com/solutions

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